

28-OCT-09  
09:23:25

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

40.00' CURB-TO-CURB; 6 BEAMS; 137.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
43.250	3.625	3.625	21.625	6	67.715	3	1	*****	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	7.200	7.200	7.200	7.200	7.200														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
21.625																			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	79.001
2	0.8333	56.429
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	79.001
2	1.4444	97.811
3	1.1667	79.001
4	0.2222	15.048
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	79.001
2	1.4444	97.811
3	1.3889	94.049
4	1.3889	94.049
5	0.6111	41.381
6	0.0000	0.000

LIVE LOAD CASE # 4 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.8333	56.429
6	1.1667	79.001

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LIVE LOAD CASE # 5 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.2222	15.048
4	1.1667	79.001
5	1.4444	97.811
6	1.1667	79.001

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6111	41.381
3	1.3889	94.049
4	1.3889	94.049
5	1.4444	97.811
6	1.1667	79.001

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LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4167	28.215
3	1.1667	79.001
4	0.4167	28.215
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8056	54.548
2	1.5833	107.215
3	1.1944	80.882
4	0.4167	28.215
5	0.0000	0.000
6	0.0000	0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8056	54.548
2	1.5833	107.215
3	1.2222	82.763
4	1.5833	107.215
5	0.8056	54.548
6	0.0000	0.000

LIVE LOAD CASE # 10                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6111	41.381
3	1.3889	94.049
4	1.3889	94.049
5	0.6111	41.381
6	0.0000	0.000

LIVE LOAD CASE # 11                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	79.001
2	1.4444	97.811
3	1.3889	94.049
4	1.3889	94.049
5	0.6111	41.381
6	0.0000	0.000

LIVE LOAD CASE # 12                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	79.001
2	0.8333	56.429
3	0.0000	0.000
4	0.0000	0.000
5	0.8333	56.429
6	1.1667	79.001

LIVE LOAD CASE # 13                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	79.001
2	1.4444	97.811
3	1.1667	79.001
4	0.2222	15.048
5	0.8333	56.429
6	1.1667	79.001

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GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
SUMMARY OF THE LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

40.00' CURB-TO-CURB; 6 BEAMS; 137.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE		# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH *****	SKEW ANGLE									
43.250	3.625	3.625	21.625	21.625	6	67.715	3	1		0									
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	7.200	7.200	7.200	7.200	7.200														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
21.625																			
	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10								
LL CASE 1	1	1	79.001	56.429	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	2	79.001	97.811	79.001	15.048	0.000	0.000	0.000	0.000	0.000								
LL CASE 3	3	3	79.001	97.811	94.049	94.049	41.381	0.000	0.000	0.000	0.000								
LL CASE 4	4	1	0.000	0.000	0.000	0.000	56.429	79.001	0.000	0.000	0.000								
LL CASE 5	5	2	0.000	0.000	15.048	79.001	97.811	79.001	0.000	0.000	0.000								
LL CASE 6	6	3	0.000	41.381	94.049	94.049	97.811	79.001	0.000	0.000	0.000								
LL CASE 7	7	1	0.000	28.215	79.001	28.215	0.000	0.000	0.000	0.000	0.000								
LL CASE 8	8	2	54.548	107.215	80.882	28.215	0.000	0.000	0.000	0.000	0.000								
LL CASE 9	9	3	54.548	107.215	82.763	107.215	54.548	0.000	0.000	0.000	0.000								
LL CASE 10	10	2	0.000	41.381	94.049	94.049	41.381	0.000	0.000	0.000	0.000								
LL CASE 11	11	3	79.001	97.811	94.049	94.049	41.381	0.000	0.000	0.000	0.000								
LL CASE 12	12	2	79.001	56.429	0.000	0.000	56.429	79.001	0.000	0.000	0.000								
LL CASE 13	13	3	79.001	97.811	79.001	15.048	56.429	79.001	0.000	0.000	0.000								

FOR PIER PROGRAM INPUT

61LL 1 1	79000	56429	0	0	0	0	0	0	0	0	0
61LL 2 2	79000	97810	0	79000	15047	0	0	0	0	0	0
61LL 3 3	79000	97810	0	94048	94048	0	41381	0	0	0	0
61LL 4 1	0	0	0	0	0	0	56429	79000	0	0	0
61LL 5 2	0	0	0	15047	79000	0	97810	79000	0	0	0
61LL 6 3	0	41381	0	94048	94048	0	97810	79000	0	0	0
61LL 7 1	0	28214	0	79000	28214	0	0	0	0	0	0
61LL 8 2	54548	107215	0	80881	28214	0	0	0	0	0	0
61LL 9 3	54548	107215	0	82762	107215	0	54548	0	0	0	0
61LL10 2	0	41381	0	94048	94048	0	41381	0	0	0	0
61LL11 3	79000	97810	0	94048	94048	0	41381	0	0	0	0
61LL12 2	79000	56429	0	0	0	0	56429	79000	0	0	0
61LL13 3	79000	97810	0	79000	15047	0	56429	79000	0	0	0